- 47. A method according to claim 45 wherein one amino acid residue in the sub-sequence is mutated.
- 48. A method according to claim 45 wherein the sub-sequence is capable of being digested by a serine protease.
- 49. A method according to claim 48 wherein the sub-sequence has an amino acid sequence including the sequence: RAAAG.
- 50. A method according to claim 49 wherein the sub-sequence is mutated by replacing arginine in the sequence: RAAAG with alanine.
- 51. A method according to claim 48 wherein the sub-sequence has an amino acid sequence selected from the group of sequences shown in SEQ ID NOS: 17 to 44.
- 52. A method according to claim 51 wherein the sub-sequence is mutated by replacing arginine in the sequence selected from the group of sequences shown in SEQ ID NOS: 17 to 44 with alanine.
- 53. A method according to claim 48 wherein the sub-sequence is capable of being digested by thrombin and has an amino acid sequence shown in SEQ ID NOS: 8 or 9.
- 54. A method according to claim 48 wherein the sub-sequence is capable of being digested by plasmin and has an amino acid sequence shown in SEQ ID NOS: 11 or 12.
- 55. A method according to claim 48 wherein the sub-sequence is capable of being digested by kallikrein.

- 56. A method according to claim 55 wherein the sub-sequence has an amino acid sequence shown in SEQ ID NOS: 9 or 10.
- 57. A method according to claim 45 wherein the sub-sequence is capable of being digested by a metalloproteinase.
- 58. A method according to claim 57 wherein the sub-sequence has an amino acid sequence including the sequence: ALAAA.
- 59. A method according to claim 58 wherein the sub-sequence is mutated by replacing alanine at any position in the sequence: ALAAA with another amino acid residue.
- 60. A method according to claim 59 wherein the sub-sequence is mutated by replacing the alanine which is N-terminal to leucine in the sequence:

  ALAAA with another amino acid.
- 61. A method according to claim 57 wherein the sub-sequence has an amino acid sequence selected from the group of sequences shown in SEQ ID NOS: 45 to 70.
- 62. A method according to claim 61 wherein the sub-sequence is mutated by replacing alanine at any position in the sequence selected from the group of sequences shown in SEQ ID NOS: 45 to 70 with another amino acid residue.
- 63. A method according to claim 62 wherein the alanine that is replaced is N-terminal to leucine.
- 64. A method according to claim 57 wherein the sub-sequence is capable of being digested by gelatinase A or B.

- 65. A method according to claim 64 wherein the sub-sequence has an amino acid sequence shown in SEQ ID NO: 13.
- 66. A method according to any one of claims 45 to 65 wherein the tropoelastin is human tropoelastin.
- 67. A method for enhancing the susceptibility of a tropoelastin to proteolysis comprising inserting a sub-sequence into the tropoelastin so that the susceptibility of the tropoelastin to proteolysis is enhanced.
- 68. A method according to claim 67 wherein one sub-sequence is inserted.
- 69. A method according to claim 67 wherein the inserted subsequence is capable of being digested with a serine protease.
- 70. A method according to claim 69 wherein the inserted subsequence has an amino acid sequence including the sequence: RAAAG.
- 71. A method according to claim 69 wherein the inserted subsequence has an amino acid sequence selected from the group of sequences shown in SEQ ID NOS: 17 to 44.
- 72. A method according to claim 69 wherein the inserted subsequence is capable of being digested by thrombin and has an amino acid sequence shown in SEQ ID NOS: 8 or 9.
- 73. A method according to claim 69 wherein the inserted subsequence is capable of being digested by plasmin and has an amino acid sequence shown in SEQ ID NOS: 11 or 12.

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- 74. A method according to claim 69 wherein the inserted subsequence is capable of being digested by kallikrein.
- 75. A method according to claim 74 wherein the inserted subsequence has an amino acid sequence shown in SEQ ID NOS: 9 or 10.
- 76. A method according to claim 67 wherein the inserted subsequence is capable of being digested by a metalloproteinase.
- 77. A method according to claim 76 wherein the inserted subsequence has an amino acid sequence including the sequence: ALAAA.
- 78. A method according to claim 76 wherein the inserted subsequence has an amino acid sequence selected from the group of sequences shown in SEQ ID NOS: 45 to 70.

79. A method according to claim 76 wherein the inserted subsequence is capable of being digested by gelatinase A or B.

- 80. A method according to claim 79 wherein the inserted subsequence has the amino acid sequence shown in SEQ ID NO: 13.
- 81. A method according to any one of claims 67 to 80 wherein the tropoelastin is human tropoelastin.
- 82. A peptidomimetic molecule comprising all or part of a peptide selected from the group consisting of KAPGVGGAF, RAAAGLG, RSLSPELREGD, KAAQFGLVPGV, KSAAKVAAKAQLRAA, RSLSPELRE AND LAAAKAAKYGAA.

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- 83. A peptidomimetic molecule which has the sequence: H-Ala-Ala-Lys-Ala-Gln-Leu-Arg-Ala-Ala-Ala-Gly-Leu-Gly-Ala-OH or H-Ala-Ala-Lys-Ala-Gln-Leu-Arg-R-Ala-Ala-Gly-Leu-Gly-Ala-OH (where R = a reduced peptide bond).
- 84. A peptidomimetic molecule which is a retro-inverso pseudo peptide which has the sequence: H-D-Ala-Gly-D-Leu-Gly-D-Ala-D-Ala-D-Ala-(R)-D-Arg-D-Leu-D-Gln-D-Ala-D-Lys-D-Ala-D-Ala-OH (where R = a reduced peptide bond) or H-D-Ala-Gly-D-Leu-Gly-D-Ala-D-Ala-D-Ala-D-Ala-D-Ala-D-Ala-D-Ala-D-Ala-D-Ala-D-Ala-D-Ala-OH.
- A peptidomimetic molecule which has the sequence H-Val-Pro-Gly-Ala-Leu-Ala-Ala-OH or H-Val-Pro-Gly-Ala-(R)-Leu-Ala-Ala-OH (where R = a reduced peptide bond).

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- 86. A peptidomimetic molecule which is a retro-inverso pseudo peptide which has the sequence: H-D-Ala-D-Ala-D-Ala-D-Leu-(R)-D-Ala-Gly-D-Pro-D-Val-OH (where R = a reduced peptide bond) or H-D-Ala-D-Ala-D-Ala-D-Leu-D-Ala-Gly-D-Pro-D-Val-OH.
- 87. A method for enhancing the purification of a tropoelastin comprising including a peptidomimetic molecule according to any one of claims 82 to 86 in a crude tropoelastin preparation which is being subjected to purification.
- 88. A pharmaceutical composition comprising a peptidomimetic molecule according to any one of claims 82 to 86 and a pharmaceutically acceptable carrier.